



PFA 16

Copolymer PFA for Extrusion Processes

Description

Perfluoroalkoxy alkanes or **PFA** are fluoropolymers. They are copolymers of tetrafluoroethylene and perfluoroethers. Melting points range from 295 to 310 C. Compared to FEP, the copolymerization composition ratio of the comonomer content is small, and PFA has a chemical structure that is close to PTFE. Therefore, PFA has a higher melting point and higher heat resistance than FEP.

Application

PFA 16 is mainly used in the aviation, aerospace, and chemical industry. It can be utilized for faster cable extrusion; it is more economical for most purposes without stress cracking resistance.

Safety Precautions

Adequate ventilation in properly maintained processing and handling areas will eliminate known hazards to personnel. Resin containers should be opened and used in well ventilated areas.

Equipment used to process at melt temperatures should be provided local exhaust ventilation to completely remove all fumes and vapors from the processing area. Additionally, care should be exercised to avoid the contamination of cigarettes and other forms of smoking tobacco when using fluoroplastic resins. Before processing any fluoroplastics, read the Safety Data Sheet available upon request. Also read the detailed information in the latest edition of the "Guide to the Safe Handling of Fluoropolymer Resins" published by the Fluoropolymers Division of the Plastics Industry Association (www.plasticsindustry.org/supply-chain/material-suppliers/fluoropolymers-division).

Product Packaging

PFA 16 is packed in a plastic bag of translucent particles that will show quality certificate, brand, lot number & net content of 25 kg.

Storage

PFA 16 should be stored in a clear, dry, shady place to avoid any contamination.

Transportation

PFA 16 is neither toxic, inflammable, explosive nor corrosive. It can be transported according to non-dangerous products.

Physical Properties	Typical Value ⁽²⁾	Unit	Test Method ⁽¹⁾
Specific Gravity	2.12-2.17	-	ASTM D 792
Melting Point	300 to 310	°C	ASTM D 3418
Thermal Decomposition ≥	260	°C	TGA, 1% Wt. Loss N ₂
Moisture	0.01	%	HG/T 2902-1997
Ultimate Elongation	350	%	ASTM D 638
Tensile Strength	26	MPa	ASTM D 638
MFR	12.1-16	g/10min	ASTM D 1238

(1) Tested in accordance with the latest issue of the designated Test Methods.

(2) Data represents typical values and should not be used for specification work.

Liability

Information contained in this publication is accurate to the reasonable knowledge of the publisher. M. Holland does not accept any liability whatsoever arising out of the use of the information in this document or the use, application, adaptation or processing of the products described herein.

All information is given in good faith, without warranty, representation, inducement or license of any kind. No guarantee is given that M. Holland products will be suitable in purchasers' constructions or processes for any particular end use. No one is authorized to make representations or give warranties or assume any other liabilities on behalf of M. Holland except if in writing and signed by a duly authorized M. Holland employee.

The purpose of the information contained herein is to assist our present and potential customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. It is the customer's responsibility to inspect and test our products and to consult the related Material Safety Data Sheet before use in order to satisfy itself as to the contents of the products and the suitability of the products for the customer's particular purpose. Although the information contained herein is to our knowledge accurate and reliable as of the date hereof, nothing herein shall constitute any warranty (express or implied, of merchantability, fitness or otherwise) and no statement herein shall be construed as an endorsement of any product or process. M. Holland shall not be liable for special, incidental, or consequential damages arising out of the use of the products based upon a breach of warranty, breach of contract, negligence, strict tort liability or any other legal theory.